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Publications of the

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Sefior ENRIQUE TORIELLO	{ Consulate of Guatemala, San Francisco, Cal.
Prof. L. W. UNDERWOOD	{ Underwood Observatory, Ap- leton, Wisconsin.
Professor L. G. WELD	State University, Iowa City, Iowa.
JAMES A. WILSON	1321 Steiner Street, S. F., Cal.

The resignations of several members were read and accepted.

On motion, the President and Secretary were empowered to make such changes in the diploma as they may deem desirable, and to order 500 copies printed. Adjourned.

MINUTES OF THE MEETING OF THE ASTRONOMICAL SOCIETY OF
THE PACIFIC, HELD IN THE LECTURE-HALL OF THE
CALIFORNIA ACADEMY OF SCIENCES, JAN. 30, 1892.

The minutes of the last meeting were read and approved.

It was *voted* that the thanks of the Society be returned to the California Academy of Sciences for the use of their lecture-hall.

A list of thirty-eight new members elected at the Directors' meeting was read to the meeting.

A number of presents was announced, and special attention was called to the beautiful colored lithograph of the lunar eclipse of November, 1888, by Prof. WEINEK, of Prague.

The following papers were presented:

- a. The Rotation of the Sun (translation from the German of Dr. SCHMIDT), by A. C. BEHR, of Chicago.
- b. POGSON's Comet and the BIELAN Meteors, by W. H. S. MONCK, of Dublin, Ireland.
- c. The McKIM Observatory, by Prof. W. V. BROWN, of Greencastle, Indiana.
- d. When shall we have Another Glacial Epoch? by GARRETT P. SERVISS, of New York City.
- e. The Total Eclipse of the Moon, January 28, 1888, by Prof. WEINEK, of Prague (translated by F. R. ZIEL, of San Francisco.)
- f. Lantern Slide Exhibition, with lecture by W. W. CAMPBELL, of Mount Hamilton.

The President announced that a branch of the Society was to be organized in Pittsburg, Penn., similar to the Chicago section.

A committee to nominate a list of eleven Directors and Committee on Publications, to be voted for at the Annual Meeting was appointed as follows: Messrs. José COSTA (chairman), F. H. McCONNELL, ARTHUR RODGERS, HARRY DURBROW, EDWARD B. YOUNG.

A committee to audit the accounts of the Treasurer and to report at the Annual Meeting was appointed as follows: Messrs. M. M. O'SHAUGHNESSY (Chairman), OTTO VON GELDERN, F. W. ZEILE.

The hall was darkened, and Mr. CAMPBELL exhibited about seventy-five lantern slides. These included copies of the recent photographs of nebulæ, clusters and the moon taken at the Lick Observatory and elsewhere; diagrams illustrating the principles and methods of spectrum analysis, photographs of famous spectroscopes; and photographs of star spectra; in connection with which the recent spectroscopic observations were reviewed, and the nature of the present problems explained.

The meeting then adjourned.

**MINUTES OF THE NINTH REGULAR MEETING OF THE
CHICAGO SECTION A. S. P.**

The *ninth* regular meeting of the Chicago Section A. S. P. was held Friday evening, October 23, 1891, at the Kenwood Astro-Physical Observatory, Chicago.

Mr. G. A. DOUGLASS presided. The minutes of the last meeting were accepted as read. G. E. HALE then gave an account of a recent visit to various observatories and laboratories in Europe, after which observations were made by the members with the 12-inch telescope.

GEORGE E. HALE, *Secretary.*

**MINUTES OF THE TENTH REGULAR MEETING OF THE
CHICAGO SECTION A. S. P.**

The *tenth* regular meeting of the Chicago Section A. S. P. was held Saturday evening, December 5, 1891, at the Kenwood Astro-Physical Observatory, Chicago.

Mr. G. A. DOUGLASS occupied the chair. The minutes of last meeting were accepted as read. Mr. A. C. BEHR read a translation of a paper on "The Rotation of the Sun," published in "*Sirius*," by Prof. A. SCHMIDT, and supplemented it by a few remarks. Mr. G. E. HALE explained the spectroscopic method used in determining the velocity of the sun's rotation, and discussed various questions raised in the paper. An account was given of a solar eruption of only fifteen minutes duration which was observed simultaneously at Kalocsa, Hungary, and at the Kenwood Observatory, Chicago. Results of recent progress in solar prominence photography were announced, and a description was given of a visit to the "*Urania*," in Berlin. After the adjournment of the meeting the members observed *Jupiter*, the *Orion* nebula, and other objects with the 12-inch telescope.

Application for membership in the A. S. P. and Chicago Section was received from—

Mr. F. R. BISSELL, 183 La Salle Street, Chicago.

GEORGE E. HALE, *Secretary.*